

ARCDIS-1XX

(TB-6028)

8", 15.6", 17", 18.5", 21.5" front panel IP65 aluminum die-casting chassis Display

User Manual

| Release Date | | | Revision |
|-------------------------------------|---------------|------------------------------|------------------------------|
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Revision History

| Reversion | Date | Description |
|-----------|--|--------------------------|
| 1.0 | 2014/10/03 | Official Version |
| 1.1 | 2015/06/10 Add 15.6", 17", and 18. | |
| 1.2 | 2015/07/24 Delete description of die-cas | |
| | | Modify Power Consumption |

Warning!

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Electric Shock Hazard – Do not operate the machine with its back cover removed. There are dangerous high voltages inside.

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| Warning! | |
| Disclaimer | |

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Chapter 1_____

Getting Started

1.1 Features

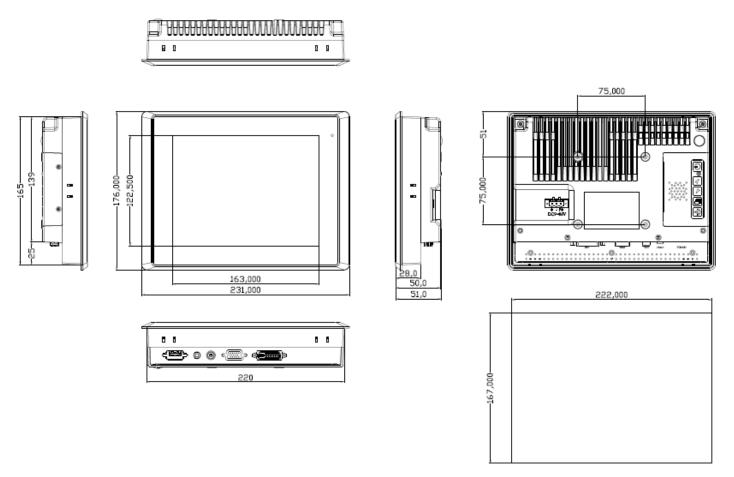
- Solid Aluminum chassis
- Variety of LCD panel size selections
- Front bezel IP65
- VGA and DVI input, RCA is for option
- 9~36V DC wide range power input

1.2 Specifications

| | ARCDIS-108(P) | ARCDIS-116(P) | ARCDIS-117(P) | ARCDIS-118(P) | ARCDIS-121(P) |
|-------------------------------|--|-----------------|-----------------------|-----------------|-----------------|
| Hardware | | | | | |
| | 8" color TFT | 15.6" color TFT | 17"color TFT | 18.5" color TFT | 21.5" color TFT |
| Display Type | LCD | LCD | LCD | LCD | LCD |
| | | | Default I/O: | | |
| | | 1 x 3 pins terr | minal block power in | put 9~36V DC | |
| | | | 1 x DVI | | |
| External I/O Port | | | 1 x VGA | | |
| | 1 x USB for Touch control | | | | |
| | Option I/O: | | | | |
| | 1 x RCA | | | | |
| | | 1 x RS-232 | DB-9 for Resistive To | uch control | |
| OSD Control | On board controller, extendable key pad from connector | | | | |
| | | Transfer I | Board OSD Membran | ie Keypad | |
| Speaker | 1 x 3W AMP internal pin header for option | | | | |
| LCD | | | | | |
| Max. Resolution | 800 x 600 | 1366 x 768 | 1280 x 1024 | 1366 x 768 | 1920 x 1080 |
| Max. Color | 16.2M | 16.7M | 16.7M | 16.7M | 16.7M |
| Luminance(cd/m ²) | 350 | 300 | 350 | 300 | 250 |
| Contrast Ratio | 500 : 1 | 500 : 1 | 800 : 1 | 1000 : 1 | 3000 : 1 |
| Viewing Angle (H/V) | 140°/125° | 160°/160° | 160°/140° | 170°/160° | 178°/178° |
| Backlight Lifetime | 40,000 hrs | 50,000 hrs | 50,000 hrs | 50,000 | 30,000 hrs |

| Power Input | | 9~36V DC on board | | | |
|--------------------------|---------------------------|-------------------|--------------------------------------|-----------------|------------------|
| | MAX: | MAX: | MAX: | MAX: | MAX: |
| Power | 4.7W(108) | 12.3W(116) | 14.3W(117) | 21.5W(118) | 21.7W(121) |
| Consumption | MAX: | MAX: | MAX: | MAX: | MAX: |
| | 3.6W(108P) | 12.8W(116P) | 18.4W(117P) | 20.4W(118P) | 24.9W(121P) |
| Touch Screen (ARC | DIS-1XX) | | | | |
| Туре | | Re | esistive Touch Windo | w | |
| Interface | | | USB / RS-232 | | |
| Light Transmission | | | Over 80% | | |
| Touch Screen (ARC | DIS-1XXP) | | | | |
| Туре | | | Projected Capacitive | | |
| Interface | | | USB | | |
| Light Transmission | Over 90% | | | | |
| Mechanical | | | | | |
| Construction | Aluminum chassis | | | | |
| Construction | | Aluminum | Die-casting chassis of | only for 8" | |
| Dimensions | 231 x 176 x 51 | 412 x 277.5 x | 439 x 348 x 64.8 | 499.6 x 314.6 x | 557 x 362 x 64.8 |
| Dimensions | mm | 60.4 mm | mm | 59.9 mm | mm |
| Net Weight | 1.8 kg | 4.5 kg | 9.56 kg | 5.9 kg | 7.3 kg |
| Mounting | Panel / VESA | | Panel / VES | A 100x100 | |
| Mounting | 75x75 | | | | |
| Environment Speci | fications | | | | |
| Operating | | 0 ~ | ~50 °C (32~122 ° | F) | |
| Temperature | | | | | |
| | -20 ~ 60 °C (-4 ~ 140 °F) | | | | |
| Storage | | -20 | | | |
| Storage Temperature | | -20 | | | |
| - | | | % @40° ℃ Non-conc | lensing | |
| Temperature | | | % @40°C Non-conc Front Panel IP65 | lensing | |

1.3 Dimensions



Mounting Hole Size

Figure 1.1: Dimensions of ARCDIS-108(P)

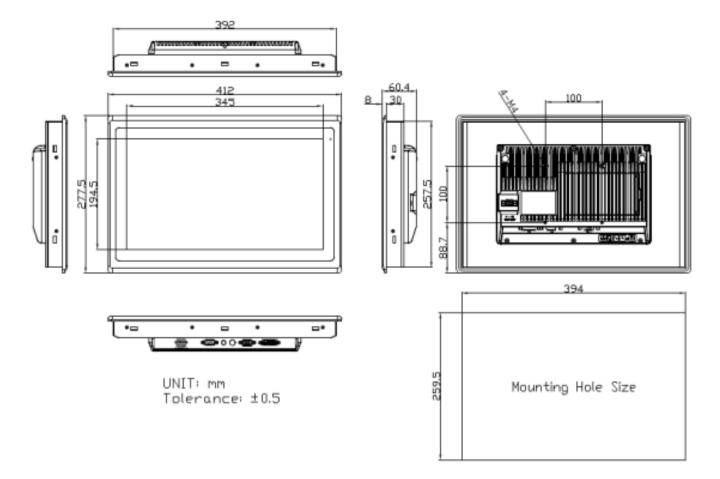


Figure 1.2: Dimensions of ARCDIS-116(P)

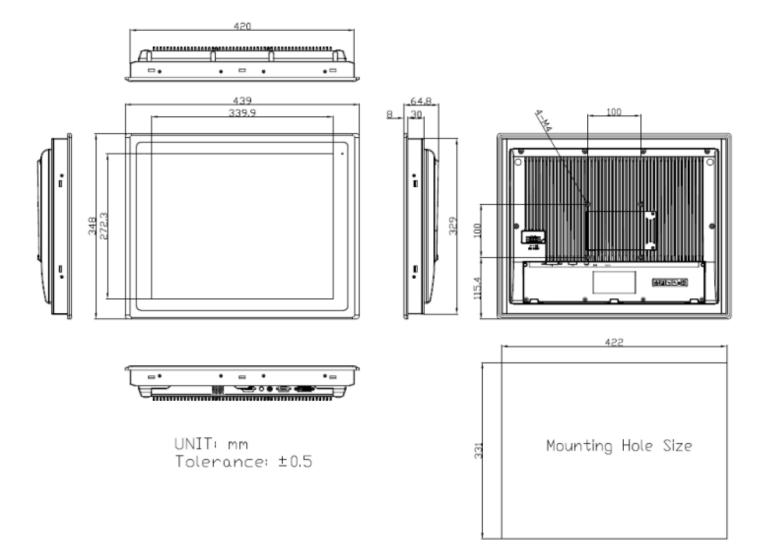


Figure 1.3: Dimensions of ARCDIS-117(P)

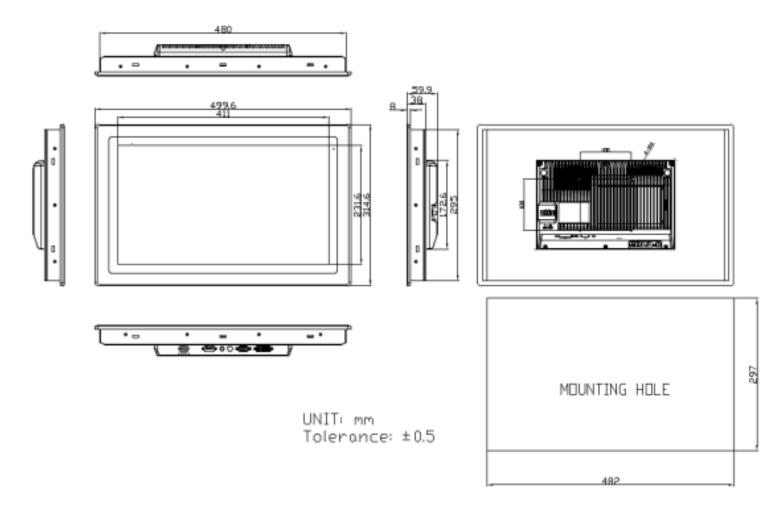


Figure 1.4: Dimensions of ARCDIS-118(P)

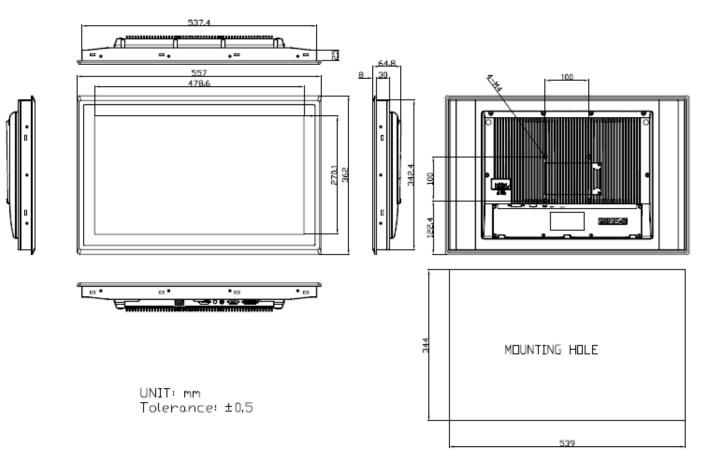


Figure 1.5: Dimensions of ARCDIS-121(P)

1.4 System Diagram (Full Function)

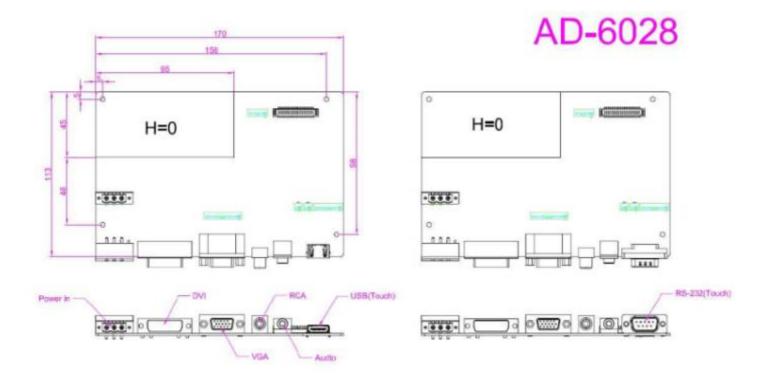


Figure 1.6: System diagram of ARCDIS-1xx

1.5 Brief Description of ARCDIS-1XX

ARCDIS-1XX with TB-6028 AD Board is a total IP65 aluminum front bezel and chassis LCD Display, which comes with 8 inch (luminance of 350 cd/m²), 15.6 inch (luminance of 300 cd/m²), 17 inch (luminance of 350 cd/m²), 18.5 inch (luminance of 300 cd/m²) and 21.5 inch (luminance of 250 cd/m²) TFT LCD. ARCDIS-108(P) comes with a viewing angle of 140 (H) degrees and 125 (V) degrees. ARCDOS-116(P) comes with a viewing angle of 160 (H) degrees and 160 (V) degrees. ARCDIS-117(P) comes with a viewing angle of 160 (H) degrees and 140 (V) degrees. ARCDIS-118(P) comes with a viewing angle of 170(H) degrees and 160 (V) degrees. ARCDIS-121(P) comes with a viewing angle of 178 (H) degrees and 178 (V) degrees. ARCDIS-121(P) comes outstanding features, thus giving the best in monitoring and control applications. ARCDIS-108 can be VESA-75 mounted. ARCDIS-116, 117, 118 and ARCDSI-121 can be VESA-100 mounted.



Figure 1.7: Front View of ARCDIS-108(P)



Figure 1.8: Rear View of ARCDIS-108(P)



Figure 1.9: Front View of ARCDIS-116(P)



Figure 1.10: Rear View of ARCDIS-116(P)



Figure 1.11: Front View of ARCDIS-117(P)



Figure 1.12: Rear View of ARCDIS-117(P)



Figure 1.13: Front View of ARCDIS-118(P)



Figure 1.14: Rear View of ARCDIS-118(P)



Figure 1.15: Front View of ARCDIS-121(P)

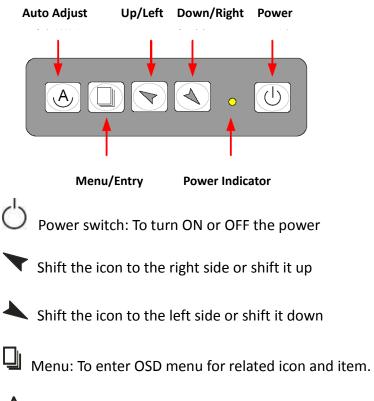


Figure 1.16: Rear View of ARCDIS-121(P)

1.6 Display Mode

| ltem | Resolution | H Freq.(kHz) | V Freq.(Hz) | Remark |
|------|--------------|--------------|-------------|--------|
| 1 | 640x350@70 | 31.469 | 70.087 | VGA |
| 2 | 640x400@70 | 31.469 | 70.087 | VGA |
| 3* | 640x480@60 | 31.469 | 59.940 | VESA |
| 4 | 640x480@66 | 35.000 | 66.667 | MAC |
| 5 | 640x480@72 | 37.861 | 72.809 | VESA |
| 6* | 640x480@75 | 37.500 | 75.000 | VESA |
| 7 | 720x400@70 | 31.469 | 75.000 | TEXT |
| 8 | 800x600@56 | 35.156 | 56.250 | VESA |
| 9* | 800x600@60 | 37.879 | 60.317 | VESA |
| 10 | 800x600@72 | 48.077 | 72.188 | VESA |
| 11* | 800x600@75 | 46.875 | 75.000 | VESA |
| 12 | 832x624@75 | 49.107 | 75.087 | MAC |
| 13 | 848x480@60 | 31.020 | 60.000 | VESA |
| 14* | 1024x768@60 | 48.363 | 60.004 | VESA |
| 15* | 1024x768@75 | 60.023 | 75.029 | VESA |
| 17 | 1152x864@70 | 63.850 | 70.000 | VESA |
| 18 | 1152x864@75 | 67.500 | 75.000 | VESA |
| 19 | 1152x900@76 | 71.809 | 76.149 | SUN |
| 20* | 1280x768@60 | 47.730 | 60.000 | VESA |
| 21* | 1280x768@75 | 60.290 | 74.890 | VESA |
| 22 | 1280x960@60 | 60.000 | 60.000 | VESA |
| 23* | 1280x1024@60 | 63.980 | 60.000 | VESA |
| 24* | 1280x1024@75 | 79.976 | 75.025 | VESA |
| 25* | 1366x768@60 | 47.710 | 60.020 | VESA |
| 26 | 1440x900@60 | 56.040 | 60.000 | VESA |
| 27 | 1440x1050@60 | 65.320 | 59.980 | VESA |
| 28 | 1440x1050@75 | 82.280 | 74.870 | VESA |
| 29* | 1920x1080@60 | 67.500 | 60.000 | VESA |

2.1 AD Board OSD Functions



Auto Button: One-touch auto adjustment

1.) Getting into Burn-in Mode

Before setting into a burn-in mode, first disconnect the AC power cord. Then press (don't let them go) the \checkmark buttons until the AC power cord is connected and the "RGB" appears on the top left corner of your screen. Now it can be put into the burn-in mode for changing colors.

2.) Getting Out of Burn-in Mode

Before getting out of the burn-in mode, please first disconnect the AC power cord. Then press the
button (If not workable, press the
button and don't let them go) until the AC power cord is connected. Please don't let your fingers go until the AC power cord is connected again and the wording of "RGB" appears on the top left corner of your screen, and wait for 3 second. Under the non-signal entry situation, if **Cable Not Connected** is seen, exit is thus successfully made.

When the Burn-in Mode is Unable to Eradicate...

- If the "RGB" is still on the top left corner of the screen, press up to enter
 "Miscellaneous" and choose "Reset", and then Yes, and press up. When the screen goes black, disconnect power and repeat the above steps.
- If the "RGB" is not found, disconnect the AC power cord first. Then press the buttons (don't let them go) until the AC power cord is connected, and wait for 2 to 3 seconds. When "RGB" appears, repeat the above steps.

2.2 OSD Controls

To make any adjustment, select the following:

- 1. Press 🕌 (Menu) to show the OSD menu or disable the OSD menu.
- 2. Select the icon that you wish to adjust with the (\checkmark/\checkmark or +/-) key in the menu.
- 3. Press \bigcup (Menu) and then choose the item with the (\checkmark/\checkmark or +/-) key.
- 4. Press \bigcup (Menu) and then adjust the quality with the (\checkmark / \checkmark or +/-) key.

2.3 OSD Function

- **1.** Power button: Power on/off
- 2. Down button: Brightness
- 3. Up button: Volume
- 4. Menu button: Menu
- 5. Auto button: Auto adjustment

2.4 OSD Default Parameter

| | ARCDIS-108(P) | ARCDIS-116(P) | ARCDIS-117(P) | ARCDIS-118(P) | ARCDIS-121(P) |
|-------------|---------------|---------------|---------------|---------------|---------------|
| Luminance | | | | | |
| Brightness | 50 | 50 | 50 | 50 | 50 |
| Contrast | 50 | 50 | 50 | 50 | 50 |
| | | | | | |
| Management | | | | | |
| H. Position | auto | auto | auto | auto | auto |
| V. Position | auto | auto | auto | auto | auto |
| Pixel Clock | auto | auto | auto | auto | auto |
| Phase | auto | auto | auto | auto | auto |
| | | | | | |
| Color | sRGB | sRGB | sRGB | sRGB | sRGB |
| Red | 50 | 50 | 50 | 50 | 50 |
| Green | 50 | 50 | 50 | 50 | 50 |
| Blue | 50 | 50 | 50 | 50 | 50 |
| | | | | | |
| OSD | | | | | |
| H. Position | 50 | 50 | 50 | 50 | 50 |
| V. Position | 50 | 50 | 50 | 50 | 50 |
| OSD time | 7 | 7 | 7 | 7 | 7 |
| | | | | | |

Language

English

2.5 Main Menu



In the **Main menu**, there are the following items:

- Color
- Image Setting
- Position
- OSD Menu
- Language
- Misc.
- Exit



For **Color**, check out the following:

- Contrast
- Brightness
- Color Adjust
- Color Temp
- Back



For **Image setting**, check out the following:

- Clock
- Phase
- Gamma
- Sharpness
- Back



In the **Position**, there are the following:

- H. Position
- V. Position
- Back



In the **OSD** menu, there are:

- OSD H. Pos.
- OSD V. Pos.
- OSD Timer
- Back

| - #2 | English |
|------|----------------|
| | Français |
| | Deutsch |
| | Español |
| | |
| | |
| | |
| | |
| | 1280×1024 75Hz |

In the Language menu, there are:

- English
- Frances
- Germany
- Spanish
- Traditional Chinese
- Simplified Chinese
- Japanese



In the **Misc** menu, there are:

Signal Source
 Select VGA: Analogue VGA Input
 Select DVI: Digital DVI-D Input
 Select AV: Composite Video Input
 Select SV: S-Video Video Input

- Reset
- Back

Chapter 3_____

3.1 Windows XP/2003/Vista/7 Universal Driver

Installation for PenMount 6000 Series

Before installing the Windows XP/2003/Vista/7 driver software, you must have the Windows XP/2003/Vista/7 system installed and running on your computer. You must also have one of the following PenMount 6000 series controller or control boards installed: PM6500, PM6300.

3.2 Installing Software (Resistive Touch Screen Type)

If you have an older version of the PenMount Windows XP/2003/Vista/7 driver installed in your system, please remove it first. Follow the steps below to install the PenMount DMC6000 Windows XP/2003/Vista/7 driver.

Step 1. Click Next to continue.



Step 2. Read the license agreement. Click I Agree to agree the license agreement.

| | PenMount Windows Universal Driver(WHQL) V2.4.0.306 Setup 🛛 🔲 🔀 |
|----|---|
| | icense Agreement Please review the license terms before installing PenMount Windows Universal Driver(WHQL) V2.4.0.306. |
| | Press Page Down to see the rest of the agreement. |
| | PLEASE READ THE LICENSE AGREEMENT |
| | PenMount touch screen driver software is only for using with PenMount touch screen controller or control board. |
| | Any person or company using a PenMount driver on any piece of equipment which does not utilize an PenMount touch screen controller |
| | will be prosecuted to the full extent of the law. |
| | If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install PenMount Windows Universal Driver(WHQL) V2.4.0.306. |
| Nu | lsoft Install System v2.46 |
| | < <u>B</u> ack I <u>A</u> gree Cancel |

Step 3. Choose the folder in which to install PenMount Windows Universal Driver. Click **Install** to start the installation.

| 🖳 PenMount Windows Universal Driver(WHQL) V2.4.0.306 Setup 🛛 🔲 🔀 |
|---|
| Choose Install Location Choose the folder in which to install PenMount Windows Universal Driver(WHQL) V2.4.0.306. |
| Setup will install PenMount Windows Universal Driver(WHQL) V2.4.0.306 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation. |
| Destination Folder C:\Program Files\PenMount Windows Universal Driver(WHQL) Browse |
| Space required: 0.0KB Space available: 13.9GB |
| Nullsoft Install System v2.46 |

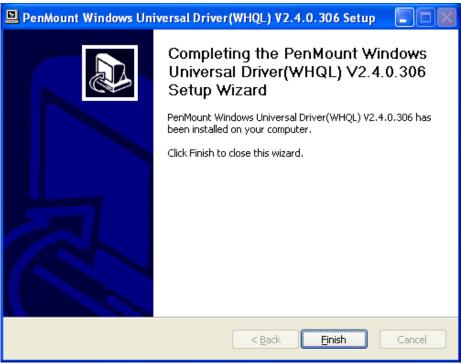
Step 4. Wait for installation. Then click Next to continue.

| PenMount Windows Universal Driver(WHQL) V2.4.0.306 Setup 📃 🗖 🔀 |
|---|
| Installing Please wait while PenMount Windows Universal Driver(WHQL) V2.4.0.306 is being installed. |
| Execute: "C:\Program Files\PenMount Windows Universal Driver(WHQL)\install.exe" /Install |
| Nullsoft Install System v2.46 |

Step 5. Click Continue Anyway.



Step 6. Click Finish to complete installation.



3.3 Software Functions (Resistive Touch Screen Type)

Upon rebooting, the computer automatically finds the new 9036CH5 control board. The touch screen is connected but not calibrated. Follow the procedures below to carry out calibration.

- 1. After installation, click the PenMount Monitor icon "PM" in the menu bar.
- 2. When the PenMount Control Panel appears, click "Calibrate".

PenMount Control Panel

The functions of the PenMount Control Panel are **Calibrate**, **Multiple Monitors**, **Tools**, and **About**, which are explained in the following sections.

Device

In this window, you can find out that how many devices are detected on your system.

| PenMount Control Panel | |
|--|----|
| Device Multiple Monitors Tools About | |
| | |
| Select a device to configure. | |
| PenMount | |
| 9000 RS232 | |
| The ALL R | |
| | |
| | |
| | |
| Configure Refresh | |
| | |
| | OK |

Calibrate

This function offers two ways to calibrate your touch screen. "Standard Calibration" adjusts most touch screens. "Advanced Calibration" adjusts aging touch screens.

| Standard | Click this button and arrows appear pointing to red squares. Use |
|-------------|--|
| Calibration | your finger or stylus to touch the red squares in sequence. After |
| | the fifth red point calibration is complete. To skip, press "ESC". |
| Advanced | Advanced Calibration uses 4, 9, 16 or 25 points to effectively |
| Calibration | calibrate touch panel linearity of aged touch screens. Click this |
| | button and touch the red squares in sequence with a stylus. To |
| | skip, press "ESC". |

Standard Calibration

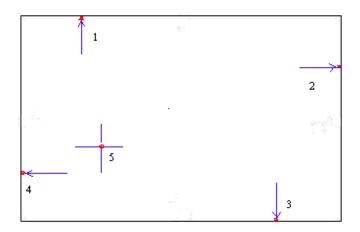
Step 1. Please select a device then click "Configure". You can also double click the device too.

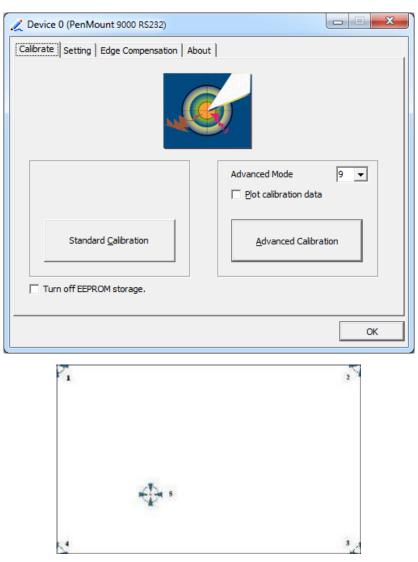
| Device Multiple Monitors Tools About | |
|--------------------------------------|--|
| | |
| Select a device to configure. | |
| 6 | |
| PenMount | |
| 9000 RS232 | |
| | |
| | |
| | |
| | |
| Configure Refresh | |
| - Keilesi | |
| | |

Step 2. Click Standard Calibration

| Z Device 0 (PenMount 9000 RS232) | |
|---|-----------------------|
| Calibrate Setting Edge Compensation About |] |
| | |
| | Advanced Mode 9 💌 |
| | Plot calibration data |
| Standard <u>C</u> alibration | Advanced Calibration |
| Turn off EEPROM storage. | |
| | ОК |

NOTE: The older the touch screen is, the more Advanced Mode calibration points you need for an accurate calibration. Use a stylus during Advanced Calibration for greater accuracy.





Advanced Calibration – click Advanced Calibration

| Plot Calibration Data | Check this function and a touch panel linearity comparison |
|-----------------------|---|
| | graph appears when you have finished Advanced |
| | Calibration. The blue lines show linearity before calibration |
| | and black lines show linearity after calibration. |

Multiple Monitors

Multiple Monitors support from two to six touch screen displays for one system.

The PenMount drivers for Windows XP/2003/Vista/7 support Multiple Monitors. This function supports from two to six touch screen displays for one system. Each monitor requires its own PenMount touch screen control board, either installed inside the display or in a central unit. The PenMount control boards must be connected to the computer COM ports via the RS-232 interface. Driver installation procedures are the same as for a single monitor. Multiple Monitors support the following modes:

Windows Extends Monitor Function Matrox DualHead Multi-Screen Function nVidia nView Function

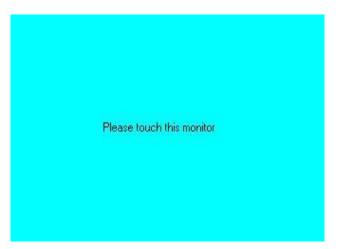
NOTE: The Multiple Monitor function is for use with multiple displays only. Do not use this function if you have only one touch screen display. Please note once you turn on this function the rotating function is disabled.

Enable the multiple display function as follows:

1. Check the **Multiple Monitor Support** box; then click **Map Touch Screens** to assign touch controllers to displays.

| area PenMount Control Panel | |
|--------------------------------------|----|
| Device Multiple Monitors Tools About | |
| Multiple Monitor Support | |
| PanN Fount | |
| Map <u>T</u> ouch Screens | |
| | ОК |

- 2. When the mapping screen message appears, click **OK**.
- 3. Touch each screen as it displays "Please touch this monitor". Following this sequence and touching each screen is called **mapping the touch screens**.



- 4. Touching all screens completes the mapping and the desktop reappears on the monitors.
- 5. Select a display and execute the "Calibration" function. A message to start calibration appears. Click **OK**.



NOTES:

- 1. If you use a single VGA output for multiple monitors, please do not use the **Multiple Monitor** function. Just follow the regular procedure for calibration on each of your desktop monitors.
- 2. The Rotating function is disabled if you use the Multiple monitor function.
- 3. If you change the resolution of display or screen address, you have to redo **Map Touch Screens,** so the system understands where the displays are.

Tools

| Draw | Tests or demonstrates the PenMount touch screen operation. |
|-------------------|---|
| Right Button Icon | Enable right button function. The icon can show on Desktop or System Tray (menu bar). |

| PenMount Control Panel |
|--|
| Device Multiple Monitors Tools About |
| Draw Test by drarwing on the touch screen |
| Show/Hide the icon for switching buttons Right Button Icon © Desktop © System Tray |
| |
| Double Click Speed Slow Fast |
| Back to Defaul <u>t</u> OK |

About

This panel displays information about the PenMount controller and this driver version.

| 🖓 PenMount Control Panel | |
|---|----|
| Device Multiple Monitors Tools About | |
| Penmount Control Panel Version 1.0.0.71 | |
| Installed Device(s) | |
| Device 0 (PenMount 5000 USB) | |
| | |
| Support E-mail : <u>penmount@seed.net.tw</u> Support Website : <u>http://www.penmount.com.tw</u> | |
| Support website . <u>Intp.//www.permount.com.tw</u> | |
| | ОК |

PenMount Monitor Menu Icon

The PenMount monitor icon (PM) appears in the menu bar of Windows XP/2003/Vista/7 system when you turn on the PenMount Monitor in the PenMount Utilities.



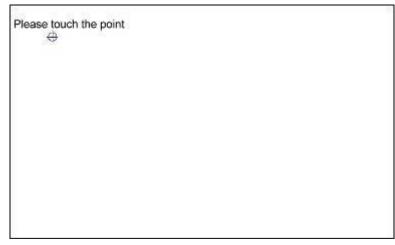
The PenMount Monitor has the following functions:



| Control Panel | Open Control Panel Windows |
|---------------|---|
| Веер | Setting Beep function for each device |
| Right Button | When you select this function, a mouse icon appears in the right-bottom of the screen. Click this icon to switch between Right and Left Button functions. |
| Exit | Exits the PenMount Monitor function. |

Configuring the Rotation Function

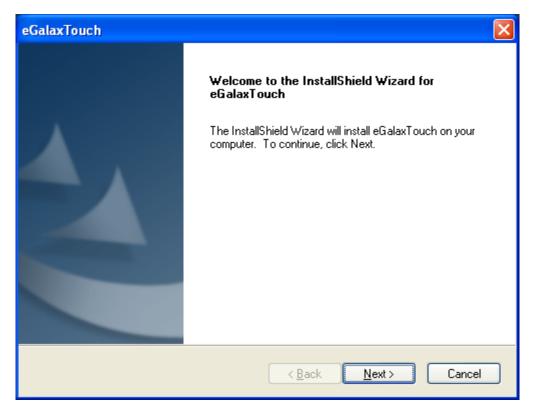
- 1. Install the rotation software package.
- 2. Choose the rotating function (0°, 90°, 180°, 270°) in the 3rd party software. The calibration screen appears automatically. Touch this point and rotation is mapped.



NOTE: The rotating function is disabled if you use Monitor Mapping

3.4 Installing Software (Projected Capacitive Touch)

Step 1. Insert Driver CD, the screen below would appear. Click Next to continue.



Step 2. Select I accept the terms of the license agreement. Click Next.

| eGalaxTouch | x |
|--|---|
| License Agreement | |
| Please read the following license agreement carefully. | |
| | _ |
| Declaration and Disclaimer | |
| The programs, including but not limited to software and/or firmware (hereinafter referred to "Programs" or "PROGRAMS"), are owned by eGalax_eMPIA Technology Inc. (hereinafter referred to EETI) and are compiled from EETI Source code. EETI hereby grants to licensee a personal, non-exclusive, non-transferable license to copy, use and create derivative works of Programs for the sole purpose in conjunction with an EETI Product, including but not limited to integrated circuit and/or controller. Any reproduction, copies, modification, translation, compilation, application, or representation of Programs except as specified above is prohibited without the express written permission by EETI. | |
| Disclaimer: EETI MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, | |
| I do not accept the terms of the license agreement Definit | |
| InstallShield | |
| < <u>B</u> ack <u>N</u> ext > Cancel | |

Step 3. Click Install RS232 interface driver, then click Next to continue.

| eGalaxTouch 🔀 |
|--|
| Setup Type Select the setup type that best suits your needs. |
| Extra RS232 interface driver for eGalaxTouch controller. Please check the check box for RS232 touch controller. |
| Install RS232 interface driver |
| |
| |
| InstallShield |
| < <u>B</u> ack <u>N</u> ext> Cancel |

Step 4. Select None. Click Next.

| eGalaxTouch | × |
|---|---|
| Setup Type | |
| Select the setup type that best suits your needs. | |
| Do 4 point calibration after system reboot | |
| C Every system boot up | |
| O Next system boot up | |
| ⊙ None | |
| | |
| | |
| | |
| | |
| | |
| InstallShield | — |
| < <u>B</u> ack <u>N</u> ext > Cancel |] |

Step 5. Click OK.

| eGalaxT | ouch - InstallShield Wizard 🛛 🛛 🗙 |
|---------|--|
| (į) | If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now. Please close the "Found New Hardware Wizard" dialog when it appears. |
| | OK |

Step 6. Click Support Muti-Monitor System. Click Next.

| eGalaxTouch | × |
|---|---|
| Setup Type Select the setup type that best suits your needs. | |
| If you want to use Multi-Monitor, please check the box. | |
| Support Multi-Monitor System | |
| | |
| | |
| | |
| | |
| InstallShield | |
| < <u>B</u> ack <u>N</u> ext > Cancel |) |

Step 7. Go to C:\Program Files\eGalaxTouch. Click Next.

| eGalaxTouch | × |
|---|---|
| Choose Destination Location | |
| Select folder where setup will install files. | |
| Setup will install eGalaxTouch in the following folder. | |
| To install to this folder, click Next. To install to a different folder, click Browse and select another folder. | |
| | |
| | |
| | |
| ⊂ Destination Folder | |
| C:\Program Files\eGalaxTouch Browse | |
| | J |
| InstallShield | |
| < <u>B</u> ack Next > Cancel | |

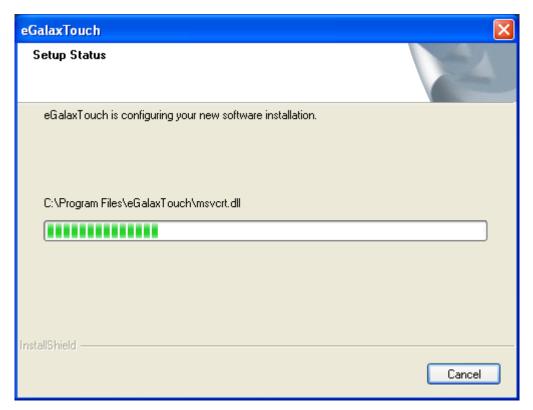
Step 8. Click Next.

| eGalaxTouch | × |
|---|---|
| Select Program Folder Please select a program folder. | |
| Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folder: eGalaxTouch Existing Folders: Accessories Administrative Tools Games Startup | |
| InstallShield <u>< B</u> ack <u>N</u> ext > Cance | |

Step 9. Tick **Create a eGalaxTouch Utility shortcut on desktop**. Click **Next**.

| eGalaxTouch | |
|---|--|
| Setup Type Select the setup type that best suits your needs. | |
| Select the features you want to install, and deselect the features you do not want to install. Click Next to continue. | |
| Create a eGalaxTouch Utility shortcut on desktop | |
| | |
| | |
| | |
| InstallShield | |
| | |

Step 10. Wait for installation.



Step 11. Click Yes to do 4 point calibration.

| Questio | n 🛛 🔀 |
|---------|--|
| 2 | The eGalaxTouch driver has been installed, before operating touch function, please do 4 point calibration. Would you do 4 point calibration now ? |
| | <u>Y</u> es <u>N</u> o |

3.5 Software Functions (Projected Capacitive Touch)

General

In this window, you can see there is USB Controller. Click **OK** to continue.

| 😪 eGalaxTouch : USB Controller | × |
|--|-----|
| General Setting Tools Display Hardware About | |
| Installed Touchscreen Controllers | |
| | |
| USB Controller | |
| | |
| | |
| | |
| | |
| | |
| Monitor | |
| Add Remove | |
| | |
| | |
| OK Cancel App | oly |

Monitor Mapping

to adjust touch panel

Add

to search for device

Setting

| 🖻 eGalaxTouch : USB Controller | × |
|--|---|
| General Setting Tools Display Hardware About | 1 |
| Beep Frequency ✓ Beep On Touch □ Beep On Release ✓ Beep From System Beep Duration □ Beep From Sound Card | |
| Linearization Style © 9 Points © 25 Points | |
| Double Click Time Shorter< | |
| Double Click Area Smaller< | |
| Normal Mode Option | |
| OK Cancel Apply | |

Веер

Beep On Touch Beep On Release Beep From System Beep Beep From Sound Card **Linearization Style** 9 points 25 points **Double Click Time** Shorter Longer **Double Click Area** Smaller Bigger **Normal mode** Simulate the mouse mode

| Option | × |
|--|---|
| Option | |
| Function ✓ Enable Constant Touch ✓ Enable Auto Right Click ✓ Enable Touch ✓ Enable Cursor Stabilization Constant Touch Area 6 Smaller<< | |
| Smaller< | |
| | |
| OK Cancel Apply | |

Option

Function Enable Constant Touch Enable Auto Right Click Enable Touch Enable Cursor Stabilization Constant Touch Area Auto Right Click Time

Tools

Click **OK** to continue the settings.

| 🗟 e | GalaxTouch : US | B Controller 🛛 🔀 | |
|--|--|---|--|
| General Setting Tools Display Hardware About | | | |
| | Linearization Curve | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | 4 Points Calibration Do 4 points alignment to match display. | | |
| | Clear and Calibrate | e Clear linearization parameter and do 4 points alignment. | |
| | Linearization | ation Do 9 points linearization for better touchscreen linearity. | |
| Draw Test Do draw test to verify the touch accuracy. | | | |
| | | | |
| | | OK Cancel <u>A</u> pply | |

4 Points Calibration

Do 4 points alignment to match display.

Clear and Calibrate

Clear linearization parameter and do 4 points alignment.

Linearization

Do 9 points linearization for better touchscreen linearity.

Draw Test

Do draw test to verify the touch accuracy.

Display

In this window, it shows the mode of display.

| 🖻 eGalaxTouch : USB Controller | × |
|--|---|
| General Setting Tools Display Hardware About | |
| Display | |
| | |
| | |
| | |
| Double click on the monitor area to map the touchscreen to the display monitor. I Enable Multiple Monitors. | |
| Map to main display if system has only one display monitor. | |
| Operation Mode | |
| | |
| | |
| C Upper Screen C Right Screen Other | |
| | |
| OK Cancel <u>Apply</u> | |

Enable Multiple Monitors.

Map to main display if system has only one display monitor

Full Screen Lower Screen Left Screen Upper Screen Right Screen

| Other | | X |
|--------------------|-----------------|--------------|
| Other Active Area | | |
| Other | | |
| | | |
| C Quarter 1 | C Quarter 3 | C Customized |
| | | |
| C Quarter 2 | C Quarter 4 | |
| Customized Area800 | × 480 | |
| Left 0 | Тор | |
| Right 800 | Bottom 480 | |
| Dra | ng Working Area | |
| | | |
| | OK | Cancel Apply |

Other

Other mode of display. Quarter1~4 and Customized area.

| Other | | | | X |
|------------------------|------------|----|-------------|---|
| Other Active Area | | | | |
| Active Area | | | | |
| Enable The Active Area | a Function | L | | |
| Active Area List | Left | 0 | Top 0 | |
| 1 | Right | 0 | Bottom 0 | |
| Drag Active Are | a | | | |
| | | | | |
| · | | ОК | Cancel App! | y |

Active Area

Drag active area to enable Active Area Function.

Hardware

| 🖻 eGalaxTouch : USB Controller 🛛 🔀 |
|--|
| General Setting Tools Display Hardware About |
| |
| Controller Model PCAP7200 Series |
| Firmware Version 1030 |
| |
| |
| |
| |
| Hardware Calibration |
| |
| |
| |
| |
| |
| OK Cancel Apply |

Saturn Hardware Configuration

| Saturn - Hardware Configuration | |
|---|-------|
| Saturn | |
| Saturn - Hardware Configuration | |
| Sensitivity 128 | h |
| Delay Time 800 us Shorter< | jer |
| Reset all of the control parameters to factory default setting. | |
| ОК С | ancel |

About

To display information about eGalaxTouch and its version.

| 🖻 eGalaxTouch : U | SB Controller | × |
|---|---|---|
| General Setting To | ols Display Hardware About | |
| | | |
| | Touch Screen Utility | |
| | Copyright (C) 2000-2011 | |
| eGalaxTouch | eGalax_eMPIA_TechnologyInc. | |
| | Version 5.11.0.9126 | |
| | | |
| | ange of controllers for Argument of controllers for Argument of controllers for Argument of the control of the | |
| The resistive contro through RS232, PS | oller communicates with the PC system directly 5/2 or USB port. | |
| | nized for an accurate, sensitive and quick touch Ill as an ease of use interface. | |
| | s a set of operating systems, 00 / Windows(R) XP , Windows Vista(R), Wind | |
| | S | |
| < | | |
| | | |
| | OK Cancel <u>Apply</u> | |

Appendix A: Board Descriptions & Specifications

Descriptions

| Model | Function Descriptions |
|------------|--|
| TB-6028 | AD board,VGA /DVI-D/RCA input,LVDS output |
| TB-6028TU | AD board,VGA /DVI-D/RCA input,LVDS output,USB/Touch controller |
| TB-6028TR | AD board,VGA /DVI-D/RCA input,LVDS output,RS232/Touch controller |
| TB-6028TRS | AD board, VGA/DVI-D input, LVDS output, RE232/Touch controller |

Specifications

| Specifications | | |
|----------------|--|--|
| Board Size | 170 x 113 x 1.6 mm | |
| Chipset | Realtek RTD2533VH PenMount 6000 | |
| Input | <pre>1 x VGA input Port 1 x DB15 connector (Default) 1 x 1*12Pin Wafer (option) 1 x DVI-D input 1 x RCA input (option) 1 x RS232 input port, DB9 connector (option) 1 x USB 2.0 input port, Single USB connector (option) 1 x Line in port, Phone Jack (option) 1 x 3-pin power input connector (Wide range DC+9V~36V) 1 x OSD function support 1 x Touch controller(option)</pre> | |
| Output | 1 x 24bit Dual Channel LVDS output interface 1 x Audio Power Amplifier (Line out, option) 1 x USB 2.0 Port (option) | |
| Resolution | Up to 1920 x1200 for LVDS | |
| Power input | DC9V-36V | |
| Temperature | Operating: -20°C to 70°C Storage: -40°C to 85°C | |
| Humidity | 0% - 80%, non-condensing, operating | |
| EMI/EMS | Meet CE/FCC class A | |

Board Dimensions

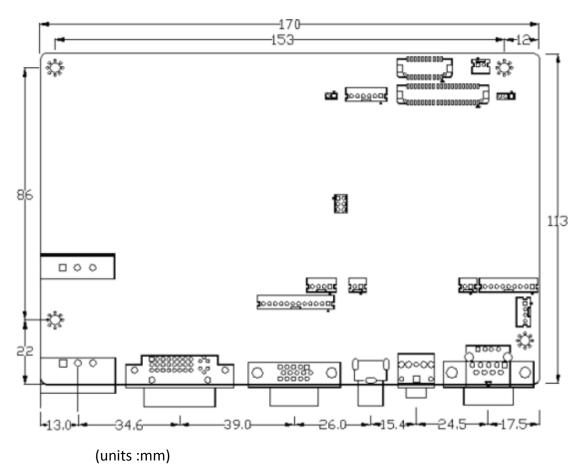


Figure A: Dimensions of TB-6028

Appendix B: Panel Mounting and VESA Mounting

The ARCDIS-1XX is designed to be panel-mounted and VESA mounted as shown in Picture. Just carefully place the unit through the hole and tighten the given screws from the rear to secure the mounting.

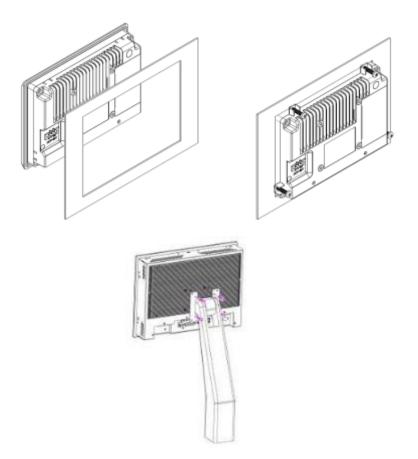


Figure B: Panel mounting and VESA mounting

*Notice :

Tighten the mounting clip screws by hand until the gasket seal contacts the mounting surface uniformly.

Tighten the mounting clips screws to a torque of $8 \sim 10$ kgf-cm by using the specified sequence, making sure not to overtighten.

*Tighten the mounting clips to the specified torque to provide a proper seal and to prevent damage to the product. Aplex assumes no responsibility for water or chemical damage to the product or other equipment within the enclosure due to improper installation.

Attention